

ABSTRACT

A predetermined amount of filtration sand 5 is suctioned out from a high speed filtration reservoir 1, that performs purification of water with filtration sand, during a backwash cleansing operation thereof, with a pump 2. The suctioned filtration sand 5 is supplied to a sand cleansing apparatus 3, and contaminants of the filtration sand are removed thereby. The filtration sand 6, from which contaminants have been removed, is stocked in a cleansed sand stock tank 4. The stocked filtration sand 7 is returned to the high speed filtration reservoir 1 during the backwash cleansing operation thereof. By repeating the suctioning, cleansing, and returning of the filtration sand in this manner, the filtration sand within the high speed filtration reservoir is automatically cleansed. The purification function of sand is restored by a method other than surface cleansing and backwash cleansing, and the time period between regeneration processes of the filtration reservoir is dramatically extended.



G00002



162162